



Jordanian Civil Defence Directorate

Spec. No.	28
Spec. date	7/4/2013
Spec. for	Command & Control vehicle
Scope	To be used to control & command in case of large accidents.

The following notes should be considered :-

1. Technical offers should explain each item required in our form below in details (comply, provided, included, refer to.....etc)
2. Any technical details presented in the financial offers will not be considered by the technical study committee
3. Technical offers will be studied according to the answers and comments. Which have to be filled in our specification form below.
4. Any required technical data should be approved by original catalogs for the products (not copy), so the original catalogs should be submitted.
5. All details had been filled in the specification form are considered obligatory for the companies.

Item no.	Required specifications	Tenders specification
1	Manufacturer : to be mentioned (for chassis & superstructure)	
2	Brand name: to be mentioned(for chassis & superstructure)	
3	Origin: to be mentioned (for chassis & superstructure)	
4	Model No. : to be mentioned .	
5	Manufacturing date : brand new for both chassis & body	
6	<u>DIMENSION AND WEIGHT</u>	
	a. Overall length : To be mentioned	
	b. Overall width : To be mentioned	
	c. Overall height : To be mentioned	
	d. Wheel base : To be mentioned	
	e. Ground clearance : To be mentioned	
	f. Gross vehicle weight (GVW) : To be mentioned	
	g. Gradeability percentage : to be mentioned .	
7	h. approach and departure angle : to be mentioned.	
	<u>CHASSIS</u>	
	a. Mode of drive: 4x4.	
	b. Steering : Left hand drive, power assisted	
	c. Engine	
	1) Type : diesel engine with turbo charger & inter cooler	
	2) Stroke and no. of cylinders : 4 cycles. 6 cylinders	
	3) Power output: not less than 180 hp @ suitable RPM (Performance chart to be submitted)	
	4) engine capacity : to be mentioned	

	5) Engine electronic controlling and injection mechanism : to be described in details	
	6) Cooling system : water cooled	
	7) Air cleaner : oil bath or dry paper element with service indicator ..	
	d. Transmission	
	1) Type : to be described (preferable to be automatic).	
	2) Gearbox : not less than 6 forward and 1 reverse with synchromesh constant mesh gears	
	3) with PTO (full power) operated from driver's cab	
	e. suspension :	
	1- leaf spring .	
	2- Shock absorber : telescopic, hydraulic or air - hydraulic acting type	
	f. Brake	
	1) Service: air over hydraulic or full air .	
	2) Parking brake: to be specified in details .	
	3) Exhaust brake	
	4) ABS or any additional brake safety systems(ASR,...,EBL) : to be mentioned.	
	g. Electrical system	
	1) Battery and its capacity : to be mentioned	
	2) Alternator (V/A), output power : to be mentioned	
	h. Tires :(on/off road)	
	1) Size, brand name& manufacturing date(not to exceed 12 month from vehicle manufacturing date), to be mentioned	
	2) Spare wheel : Q'ty (1) , mounted, to be loaded and unloaded easily with suitable mechanism.	
	i. Fuel :-	
	1) Type : diesel	
	2) Jordanian diesel standards compatibility (EURO2 or EURO3)	
	3) Tank capacity : To be mentioned.	

	4) Fuel consumption: to be mentioned	
8	The chassis should be described in details, and an approved standard reference should be mentioned such as CE approval test or similar.	
	<u>CABIN :</u>	
	a- Type : to be mentioned.	
	b- Seating : 3 seats including the driver with seat belts and headrests	
	c- two side doors .	
	d- warm / cool ventilation system with front windshield defroster.	
	f- front wipers.(2 speed wiper with washer and intermittent wiper speed)	
	g- Sun visors (2)	
	h- AM/FM original radio.	
	i- Manufacturer standard instruments, gauges(including RPM gauge) and warning lights	
	J - Floor mats	
9	<u>SUPERSTRUCTURE:</u>	
	<ul style="list-style-type: none"> - The Super structure should be consist of one box divided by suitable sections and doors into three partitions (material to be specified in details). - Each partition should be equipped with window for normal ventilation and lighting, in addition to side single hinge door open to outside with 180 degree. - A single door between (operator and commander) partition & (meeting or presentation) partition. - The three partitions is as follows:- 	
	a-Operators and commanders partition Includes :-	
	1. 4 seats.	
	2. Mobile radio installation requirements .	
	a. Suitable location for mobile radio cabinet	

b. the cabinet has enough space for four fixed radio mobile with at least the following dimensions f (H* W* D) : (70 * 190 * 300)mm for each device.	
c. electrical source 12V-DC/ 15 A. for each location	
d. suitable location for four Antennas Tetra on the vehicle roof	
e. four RF cables (RG-58CU) as a connection from the the vehicle roof to the mobile radio location	
3. Public address system (omni directional).	
4. All components to be installed and fixed in appropriate way.	
b- Meeting or presentation partition Includes :-	
1) 8 seats (foldable type) .	
2) Foldable table.	
3) Sufficient compartments ,drawers and shelves for equipment and Documents.	
4) Pin board .	
5) Intercom. Between meeting and operating partitions.	
6) TV SATsystem:	
6-a) 32" LED HDTV	
1. TYPE : LED-backlit LCD TV 32 in	
2. Display Menu Language: English	
3. FEATURES :On/off timer, auto power off, on-screen menu, Any net Plus, game mode, Info Link, Touch of Color (TOC), ultra	

	clear panel, Wide Color Enhancer +, All Share, Hyper Real Engine, progressive scan Remote control	
	4. Display Format: 1080 (Full-HD)	
	5. Multi-channel Preview: Picture-in-picture (PIP)	
	6. Sound Output Mode: Stereo	
	7. Output Power / Total: 15 Watt	
	8. Speaker(s): 2 x right/left channel speaker - built-in - 7.5 Watt	
	9. CONNECTOR TYPE : 2 x USB 2.0 (4 pin USB Type A) - side 4 x HDMI (19 pin HDMI Type A) 1 x composite video / component video input (RCA phono x 3) 1 x VGA input (15 pin HD D-Sub (HD-15)) 1 x digital audio output (optical) (TOSLINK) Audio line-in (mini-phone stereo 3.5 mm) 1 x component video input (RCA phono x 3) 1 x network (RJ-45) Audio line-out Audio line-in (RCA phono x 2) VGA (HD-15)	
	6-b) Trac vision A7 with the following specifications:	
	1. Low-clearance satellite TV solution	
	2. Satellite AcquisitionGPS/DVB	
	3. Tracking Technology In-motion & stationary	
	4. Supports Multiple Receivers (dual-output LNB)	
	5. Automatic Satellite Switching	
	6. Antenna Unit Power	

	7. TracVision A7 System w/12V Mobile Standard Definition Reciever for DIRECTV w/RF Remote; Roof Rack Mount; Black Housing	
	8. TracVision A7 System with 12/V Mobile Standard Definition Receiver for DIRECTV; Roof Mount; Black Housing	
	9. Additional 12Volt DIRECTV Mobile Receiver w/RF remote (includes Splitter 72-0177)	
	10.DIRECTV D12 Standard Definition Receiver w/IR Remote Control (220 VAC)	
	11.Destacker; Single Output	
	12. Dual Destacker; Dual-output	
	13.Kit Pack Replacement Remote;For TracVision Products	
	14.Bolt Down Mounting Kit for RV/Bus;For use with TracVision A7	
	15.Splitter For Additional 12V Mobile Receiver(s) Configuration	
	16.Bolt Down Mounting Kit Pack; For use with TracVision A7	
	7) CCTV Monitoring system : Digital Video Recorder with the following specifications:	
	1. Video Output : PAL S-Video, Composite, VGA (1024 x 786)	
	2. Storage : Hard drive with 1TB	
	3. Video Encoding : MPEG-4 or H.264	

4. Video Inputs: 4 (BNC, Looping, 75 ohm, 0.5-1 Vp-p)	
5. Video Resolutions: 4CIF (704 x 576), 2CIF (704 x 288), CIF (352 x 288)	
6. Video Recording Rate: Up to 25 IPS per camera for CIF/2CIF/4CIF	
7. Multiple Recording Modes (Schedule, Event , Circular)	
8. Relay Output: 4 relays, N.O./N.C., 30 VDC, 1A	
9. Network Interface: Gigabit Ethernet RJ-45 port (1000BaseT)	
10. Auxiliary Interface : (high-speed USB 2.0 port and RS-422 port)	
11. 20" TFT LCD Monitor	
12. Operating system: Embedded Linux	
13. Multi-Tasking Operation (Simultaneous Live/Playback, Record, Network transmission and Backup)	
14. Software in order to control DVR	
15. Zoom function for each channel	
16. Mouse Support	
17. CE, UL, FCC Approval	

	18. Multi-users remote connection for simultaneous connection to multiple locations at once.	
	19. Multi-site connection & management software.	
	20. 8) All components to be installed and fixed in appropriate way.	
	c)Service partition include :-	
	1) Toilet with washing facilities:-	
	-Water tank(0.5m ³ capacity).	
	-Drainage tank.	
	-Ventilation system .	
	2) Refrigerator.	
	3) a complete set of breathing apparatus Qty (3) { should be installed and fixed in suitable way }. -with (3) spare cylinders. -breathing apparatus set to be with the following specifications :	
	a) 1- 200 –300 bar cylinder and valve assembly :-	
	2- light weight, made of high quality material.	
	3- Water capacity of 6 liters	
	4- Free gas capacity (to be mentioned).	
	5- Weight (to be mentioned)	

	6- Plug-in manifold for regulator and flexible hose for content gauge and warning whistle.	
	7- Cylinder valve fitted with a safety-locking device.	
	b) Full face piece assembly : A mask and balanced demand valve of positive pressure type, inserted valve of plug-in type.	
	c) Pressure reducing regulator of two stage type.	
	d) Harness and back frame assembly for supporting the equipment on the body of wearer consist of : 1- Easily adjustable wide padded shoulder straps; and waist belt. 2-Individually pivoting shoulder and waist strap give maximum ease of movement distribution. 3-Ergonomically shaped "open type" carrying frame for comfort and to increase ventilation.	
	e) Plug-in manifold regulator and flexible hose for content gauge and warning whistle (any other safety devices should be mentioned)	
	f) Should be approved by the international standards (NFPA, EN), with approval certificate	
	g) All design features of SCBA assemblies should be specified in details.	
	h) With all catalogs and user manual both printed and on a (CD) or video tape	
	i) Catalogs for use, maintenance and spare parts for each component should be provided.	
	4) Qty (4) portable, rechargeable spot lights (4 working hours minimum).	
	5) Fire suit set Q'ty (3) {should be stored in a suitable drawers} specification as following:	
	1 - <i>Jacket and Trousers</i> as the following	
	a-Available in different sizes: to be specified	
	b-Color : black or dark blue	
	c-With high intensity reflective twin straps on front and back	

	d-Made of NOMEX III or PBI Gold	
	e-Multi layers configuration	
	f-Good thermal insulation	
	g-Rips, wear, punchers, abrasion and mildew resistance	
	h-Water proof	
	i-Breathable moisture barrier	
	j-Easy to wear	
	k-Knees and pants cuffs	
	l-For the jacket : 1)Comfortable over lapping collar 2)With a zipper and a Velcro closure over it for the jacket 3) 5 Pockets (one for radio ,two on the chest and two on the west) 4)Shoulders and elbows reinforced with extra layer of outer shell	
	m-For the Trouser : provided with removable x-shap suspender pads	
	n-Should comply with (EN 469 or NFPA 1971) and a certificate of approval to be submitted with the technical offer	
	2 - Fire fighting boots , as following	
	a-Waterproof leather, breathable	
	b-Size : different sizes, available sizes to be specified	
	c-With textile lining	
	d-Leg length: (25 – 30) cm	
	e-Color : black with high intensity reflective strap	

	f-Steel toe cap and reinforced sole	
	g-Boot straps on both sides , Without zip	
	h-Sole : 1-rubber shell 2- Oil and fuel resistant 3-Anti skid tread 4-Shock absorbing	
	i-Foot bed: 1. Anatomically formed 2. Exchangeable 3. Washable 4. Good moisture absorption 5. Short drying time	
	<i>3 - Safety belt :</i>	
	a-Width not less than 3 inches	
	b-Provided with hook and 1 m rope attached to the belt	
	<i>4 - Helmet :</i>	
	a-Suspension: Center of Gravity adjustment system	
	b-Face shield with thumb wheel adjustments.	
	c-Easy-to-adjust, quick-release chin strap with postman's slide.	
	d-NOMEX III covers for neck / ear protection.	
	e-Color: yellow	
	<i>5 - hood</i>	
	a-To be used to protect the ear and the neck area from heat	

	b-To be suitable with the supplied helmet	
	c-Made from NOMEX III or equivalent	
	d-Single layer	
	e-Seals tight around face and SCBA masks	
	f-Elastic enclosure allows easier donning	
	g-Seamless chin area	
	h-Should be approved by any international standard with certificate of approval	
	i-Size: different sizes, available sizes to be mentioned	
	<i>6 - Fire man Gloves</i>	
	a-Five finger type	
	b-Fire retardant and good thermal insulation	
	c-Easily grasped fine objects, and provide secure grip during operation	
	d-Breathable with inner lining	
	e-Size: different sizes, available sizes to be mentioned	
	<i>7 – General for firefighting suits.</i>	
	a-Instruction sheet(catalog if available)about cleaning and storage for each item should be provided	
	b-All above mentioned items should comply with up- to-date standard (NFPA 1971 or equivalent EN standard) with certificate of approval for each item	
	6) All components to be installed and fixed in appropriate way.	

10	<u>GENERAL REQUIRMENTS</u>	
	1) Full air Conditioning (Hot/Cold) and ventilation system for the driver Cab. & superstructure.	
	2) Lighting Inside superstructure should be supplied with sufficient illumination (led lamps). Note: illumination of lighting units should be via led lamps and controllable (high & low).	
	3) Electric generator (220V, 380V), driven via PTO	
	a. Generator location : to be mentioned.	
	b. Output power to be quite sufficient for feeding all full electrical loads (equipment, devices, lights, light mast, compressor , video mastetc) considering the safety factor.	
	1. Qty (2) 3-phase socket	
	2. Qty (6) sockets for 220V output	
	3. electric adapters for equipment	
	4) Light mast :	
	a) Minimum 7m height from the ground .	
	b) Adjustable search light, Min of (1000) watt each. Q'ty (2)	
	c) 360° rotation manually.	
	d) Lifting and lowering time : to be mentioned (35sec-45 sec)	
	e) Pneumatically operated	
	f)weather proof	
	g) located at the rear of the vehicle .	
	5) PTZ camera 36x fixed on 6 m pneumatic pole with the following specifications:	
	a) Chip Size: 1/4"	
	b) Type: Colour and B/W	
	c) Mechanism: P-T-Z	
	d) Resolution: 650 TV Lines	

e) Connectivity: Analog	
f) Minimum Illumination : 0.01 LUX	
g) Lens: 3.3mm-119mm	
h) Pan / Tilt speed Pan:0.05 ° ~ 400 ° /sec ; Tilt : 0.03 ° ~ 240 °/sec	
i) Panning Range Pan : 0° ~ 360 ° Continuous ; Tilt : 0 ° ~ 90 ° .	
j) Advanced Technology: Super Dynamic 6, Adaptive Digital Noise Reduction, Auto Tracking, VMD, Auto Tracking	
k) IP66 rated water and dust resistant. Compatible with IEC60529 measurement standard	
l) Video Output: 1 Vp-p, 75 ohms	
m) Video Connector: BNC	
n) 3D key board controller for PTZ camera with zoom function from the joystick	
o) Outdoor housing weather proof enclosure	
p) Located at the rear of the vehicle.	
6) Both masts (light & video) should be driven via the same compressor. (Compressor location and specification to be described in details).	
7) The roof of the vehicle should be supplied with all required antennas for all communication equipment	
8) Suitable access to the roof by means of ladder. (non- slip square steps) and made of light material, located at the rear of the vehicle .	
9) The ability to connect (AC,220V) from commercial line.	

	10)The ability to connect telephone lines to inside the vehicles from commercial lines.	
	11) The vehicle should be fully isolated (from weather conditions).	
	12) Technical specifications, catalogs, pictures, brand showing and describing each item have to be provided).	
	13) Technical support (for chassis, superstructure and equipment) for minimum of 10 years from time of production.	
	14)	
	15) Any extra recommended devices to be mentioned.	
	16) Providing a list of recommended spare parts for the chassis and superstructure.	
11	<u>GENERAL:</u>	
	a-Approved standard reference should be submitted like CE , or similar.	
	b-Standard body tool set and Standard tool kit. to be specified in details. Qty(1)set	
	c- Hydraulic jack with handle : not less than (10 tons)	
	d-Wheel stopper with spades. Qty (2)	
	e- rear mud protection .	
	f- Front light on top of the cab & rear light .	
	g- beacon lights .	
	h- Warning hazard triangle .	
	i- Dry chemical powder extinguisher (6kg) Qty.(1)	
	j- CO2 extinguisher (6kg) Qty.(1)	
	k-Tire chain Qty(1)set	
	l-Spare parts, use and, maintenance catalogs Qty (1) CD for spare parts if available)	
	m- Protection guards for head light, beacon, stop light & any other lights need protection.	
	n- Providing a list of recommended spare parts for the chassis and superstructure.	
	o-Supplier should guarantee supplying of spare parts (Min. of 10 years for time of production).	

	p- Vehicle Color: yellow.	
	q- Supplier should provide training course for the chassis, equipment, and devices to our engineers and technicians on operation, maintenance and trouble shootings (practical and theoretical).	
	r- A detailed drawings should be submitted for the vehicle containing all dimensions and locations of all equipment, components and any other necessary details must be submitted.	
	s- Interior design drawings of body work should be submitted (including the light mast base, video mast, foldable table and chair, BA apparatus, spare cylinders, doors, devices, and other accessories).	
12	<u>CAR GPS (NAVIGATION) with the following aspects :</u>	
	1)Display size : 5"	
	2) Display type : WQVGA color TFTwith backlight	
	3) Battery: rechargeable lithium-ion Battery(life:upto 3 hrs)	
	4) Battery charging system as follow: a- 240 ac/dc charger. b- charging through vehicle electricity	
	5) High-sensitivity receiver	
	6) Base map : cover all Jordan	
	7) Ability to add maps	
	8) Compatible with NAVTEQ maps	
	9) Internal memory	
	10) Recording feature (to be described in details)	
	11) Accepts data cards : SDTM card Data card to be supplied (minimum of 2 GB)	

	12) Waypoints / favorites / location :1000 or more	
	13) Voice prompts, (e.g. "turn right in 500 m.")	
	14) 2D , 3D , and picture in picture navigation views	
	15) Auto re-route (fast off –route and detour recalculation)	
	16) Choice of route setup (faster time ,shorter distance ,off road)	
	17) Route avoidance (avoid highways, tolls etc.)	
	18) Speed limit indicator (displays speed limit for most major roads)	
	19) Where Am I? (find closest hospitals , police & gas stations, nearest address and intersections)	
	20) Qwerty or ABC keyboard (layout)	
	21) Arabic language	
	22) Custom POIs (ability to additional points of interest)	
	23) Photo navigation (navigation to geotagged photos)	
	23) World travel clock , currency and unit converter , calculator	
	24) Picture viewer	
	25) Lock function (anti- theft feature)	
	26) Touch screen	
	27) USB port	
	28) Route avoidance (avoid highways, tolls etc.)	

	29) The system must be installed in a suitable location in the console.	
	30) All Necessary accessories for optimum installation and operation should be supplied	
	31) Update the maps and software yearly , for minimum of five years	
	32) Full catalogues	
	33) The supplier should hold an operation and technical training course	
	34) Minimum of three years warranty	